

SHARKOV, V.I.; LEVANOVA, V.P.; ARTEM'YEVA, I.S. Packing density of some natural holocellulose, Zhur.prikl.khim.

34 no.11:2508-2515 N '61.

1. Gosudarstvennyy nauchno-issledovatel skiy institut gidroliznoy

i sul'fitno-spirtovoy promyshlennosti. (Holocellulose)

AND THE PROPERTY OF THE PROPER

SHARKOV, V.I.; SAPOTNITSKIY, S.A.

Solve the problem in the best interests of the state. Bum.prom. 36 no.2:9 F '61. (MIRA 14:2)

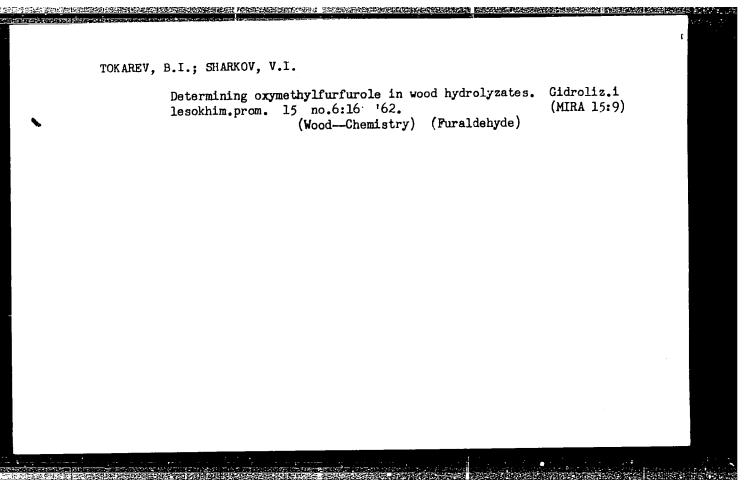
l. Direktor Nauchno-issledovatel'skogo instituta gidroliznoy i sul'fitno-spirtovoy promyshlennosti (for Sharkov). 2. Zaveduyushchiy laboratoriyey pereabotki sul'fitnykh shchèlokov Nauchno-issledovatèl'-skogo instituta gidroliznoy i sul'fitno-spirtovoy promyshlennosti (for Sapotnitskiy).

(Woodpulp) (Alcohol)

SHARKOV, V.I.; LEVANOVA, V.P.; BOLOTOVA, A.K.

Supermolecular structure of extrastrong cellulose hydrate fibers. Khim.volok. no.5:32-36 '62. (MIRA 15:11) (Textile fibers, Synthetic) (Cellulose)

Shadest Value Having and including of glucomarumn from wood benincilates of fir (Picea external). Zhur.prikl.khim. M now willige 1128 kg of. (Grae commanns) (Fir)



SLAVYANSKIY, Aleksey Konstantinovich, prof.; SHARKOV, Vasiliy
Ivanovich, prof.; LIVEROVSKIY, Aleksey Alekseyevich, dots.;
BUYEVSKOY, Anatoliy Vasil'yevich, dots.; MEDNIKOV, Fedor
Alekseyevich, dots.; LYAMIN, Vladimir Aleksandrovich, dots.;
SOLODKIY, Fedor Timofeyevich, dots.; TSATSKA, Elio Mat'Iudovich, dots.; DMITRIYEVA, Ol'ga Andreyevna, assistent;
NIKANDOROV, Boris Fedorovich, inzh.; GORDON, L.V., kand.
tekhn. nauk, retsenzent; SUKHANOVSKIY, S.I., red.; KHOT'KOVA,
Ye.S., red.izd-va; SHIBKOVA, R.Ye., tekhn. red.

[Chemical technology of wood] Khimicheskaia tekhnologiia drevesiny. Moskva, Goslesbumizdat, 1962. 574 p. (MIRA 16:4) (Wood—Chemistry)

YEF1MOV, V.A.; MOLCHANOVA, M.N.; SHARKOV, V.I.

Treatment of sunflower seed shells in a continuous horizontal pilot hydrolyzer. Sbor.trud. NIIGS 11:16-22 '63. (MIRA 16:12)

KRUPNOVA, A.V.; SHARKOV, V.I.

Thermomechanical method for converting cellulose into a readily hydrolyzable state. Gidroliz. i lesokhim.prom. 16 no.3:8-10 '63. (MIRA 16:5)

SHARKOV, V.I.; SHCHEGLOVA, T.A.

Obtaining cellulose preparations with different density of packing of the macromolecules. Zhur.prikl.khim. 36 no.6:1326-1330 Je '63. (MIRA 16:8)

TOKAREV, B.I.; SHARKOV, V.I.

Behavior of hydroxymethylfurfurole during alcoholic fermentation of hydrolyzates, Gidroliz, i lesokhim, prom. 16 no.2:4-5 '63. (MIRA 16:6) (Furaldehyde) (Glucose) (Fermentation)

SAPOTNITSKIY, S.A.; MYASNIKOVA, R.M.; SHARKOV, V.I.

Use of SO₂ for the inversion of oligosaccharides in the liquor of bisulfite cooking of vegetable raw materials. Gidroliz. i lesokhim.prom. 17 no.1:12-13 '64. (MIRA 17:4)

l. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.

USMANOV, Kh.U.; MINIMA, V.S.; ZARIFOVA, A.M.; SHARKOV, V.I., doktor tekhn.nauk, prof., otv. red.; SUKOLOVA, A.A., red.

[Prospects of the chemical processing of cotton waste] Ferspektivy khimicheskoi pererabotki otkhodov khlopkovodstva.
Tashkent, Izd-vo "Nauka" UzSSR, 1964. 125 p.

(MTRA 17:11)

KRUPNOVA, A.V.; SHARROV, V.I.

Mechanical and thermochemical method of transforming cellulosecontaining materials to a readily hydrolyzable state. Gidroliz. i lesokhim. gram. 17 no.3:3-5 164. (MIPA 17:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gldroliznoy i sul'fitno-spirtovoy promyshlennosti.

DMITRIYEVA, C.A.; PCTAFOVA, N.P.; SHARKOV, V.I.

Comparative study of the supermolecular structure of wood callulose by the methods of thermal and hydrolytic action.

Zhur. prikl. khim. 37 no.9:2083-2085 S '64.

(MIRA 17:10)

VYRoDOVA, L.P.; SHARETV, V.1.

Studying the dissolving process of cellulose and wood in concentrated sulfuric acid. Sbor.trud.NIIGS 12:40-48 164.

(MIRA 18:3)

BOLOTOVA, A.K.; SHARKOV, V.I.

Using the method of dielectric constant measurement in the study of the supramolecular structure of cellulose. Sbor.trud.MIIGS 12:49-59 164.

Investigating the capillary structure of cellulose. Ibid.:60.70

Retarding effect of water in the hydrolysis reaction of cellulose.

Ibid.:71-86 (MIRA 18:3)

Comparative and of cotton collulate guerra cauler of

Comparative study of cotton cellulose supermolecular structure by the methods of thermal and hydrolytic treatment. Sur.prikl. kbim. 37 no.7:1583-1589 J1 164. (MIRA 18:4)

l. (Aningradska) a lesotekhnicheskava akademiya (mer. Elyeva i Goraderotvennyy institut gidroliznoy promyshlenness).

CHOCKEL, V.A., addfilkA, A.L.; CC-GY-EVA, Ya.F.

Charly of the recognisty of xylourenide by fractionation. Chur. prikl.

khim. 38 no.7:1395-3538 Cl. 765. (MIRA 18:7)

1. Grandarstventy seuthmentaledovateliskiy institut gidrolizncy i

culfittespirtovey promyshlermosti.

SHARKOV, V.M.

USSR/ Engineering - Industrial processes

Card 1/1 Fub. 103 - 5/19

Authors ; Sokolovskiy, M. V.; Gumennyy, V. N.; and Sharkov, V. M.

Title ! Thermal treatment of worm threads with high-frequency currents

Periodical : Stan. i instr. 2, 19 - 20, Feb 1955

Abstract: The construction of a special machine for hardening of worm threads with high-frequency current was announced by the "Krasniy Metallist Metallurgical Plant." The technical and mechanical properties of the new machine are described. It was found that the changes in the worm dimension after thermal treatment with high-frequency currents are very insignificant and can be totally disregarded. The thermal treatment cycle of the new machine is 15 - 18 times smaller than otherwise and the mechanical properties of

the treated part remain unchanged. Drawings.

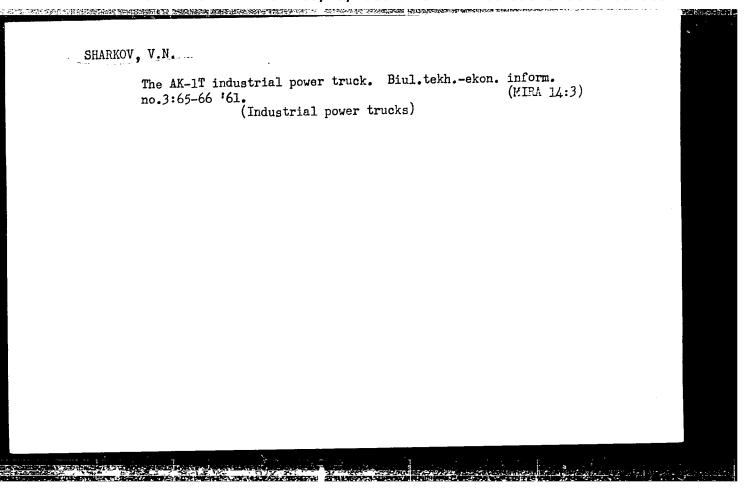
Institution:

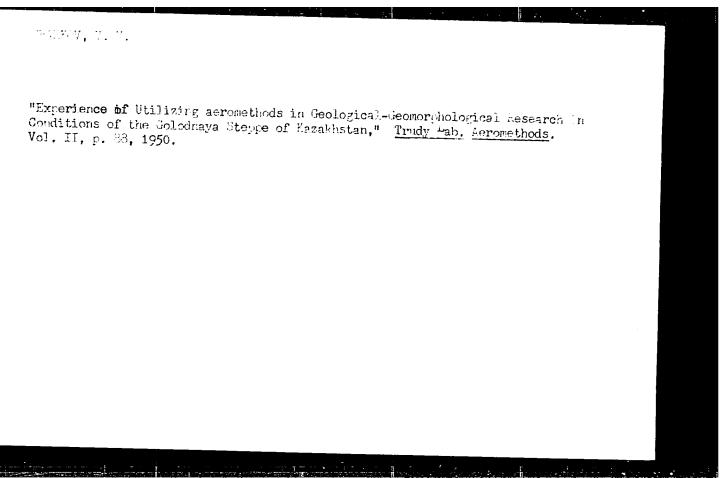
Submitted:

SHARKOV, V. M.

"The effective technique of prospecting useful minerals in less investigated regions"

report to be reactifue to the following for the Sharkful of the first Expellentian of Poisson and Statement for the Sharkful of the first Exactly of the first





THE REPORT OF THE PERSON OF TH

YAKOVLEV, S.A.; APUKHTIN, N.I.; BOCH, S.G.; VOZNESENSKIY, D.V.; GROMOV, V.I.; ZHUKOV, M.M.; KRASNOV, I.I.; LUNGERSGAUZEN, G.F.; PERKONS, V.A.; POKROVSKAYA, I.M.; HUDOVITS, Yu.L. [deceased]; SEMENOVA, A.S.; SHARKOV, V.V.; EPSHTEYN, S.V.; YAKOVLEVA, S.V.; VERSTAK, G. V. redaktor; GUHOV, O.A., tekhnicheskiy redaktor.

THE STREET STREET, STREET STREET, STRE

[Methodical aid for studying and geological surveying of quarternary deposits; description of methods] Metodicheskoe rukovodstvo po izucheniiu i geologicheskoi s*emke chetvertichnykh otiozhenii; opisanie metodov. Sost.S.A.Iakovlev. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr. 1955. 485 p. [Microfilm] (MLRA 9:1)

 Leningrad. Vsesoyuznyy geologicheskii institut.
 (Geological surveys) (Geology, Stratigraphic--Quaternary--Study and teaching)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12, 15-1957-12-16943

p 40 (USSR)

AUTHOR:

Sharkov, V. V.

TITLE:

Use of Aerial Methods in the Studies of Quaternary Deposits (Primeneniye aerometodov pri issledovaniyakh chetvertichnykh otlozheniy)

PERIODIC AL:

V sb: Metod. rukovodstvo po izucheniyu i geol. s"yemke chetvertich. otlozheniy, ch 2, Moscow, Gosgeoltekhizdat,

ABSTRACT:

Bibliographical entry

Card 1/1

Unample of using aerial photographs to show changes in the actual thickness of ocean rock bottom. Trudy Lab. aeromet. 4:138-140 '55, (Johnarine geology) (Photography, Aerial) (MLRA 9:2)

GUR'YEVA,Z.I.; SHARKOV,V.V.; SHUL'TS,S.S.

Results of geological mapping of shallow ocean bottom areas by means of aerial photographs. Sov.geol. no.42:65-79 '55.

(Photography, Aerial) (Geology--Maps)

(MIRA 8:6)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548620004-1"

SHARKOV, Vitaliy Vasil'yevich, redaktor; KUDRITSKIY, Dmitriy
Mikhaylovich, redaktor; DOLMATOV, P.S., vedushchiy redaktor;
GENNAD'YEVA, I.M., tekhnicheskiy redaktor

[Use of aerial methods for geological investigations of the ocean bottom; a brief practical manual]Primenenia aerometodov dlia geologicheskikh issledovanii morskogo dna; kratkoe metodicheskoe rukovodstvo. Pod red. V.V. Sharkova i D.M. Kudritskogo. Leningrad, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, Leningradskoe otd-nie, 1956.

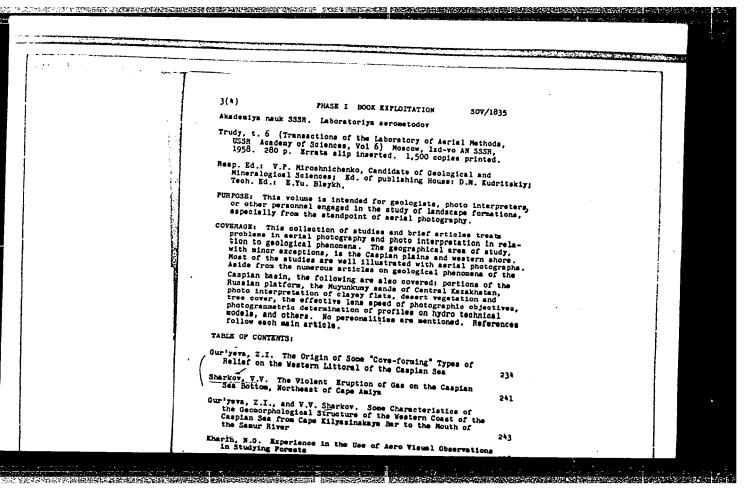
254 p. (MLRA 10:4)

1. Akademiya nauk SSSR. Laboratoriya aerometodov. (Aerial photogrammetry) (Ocean bottom)

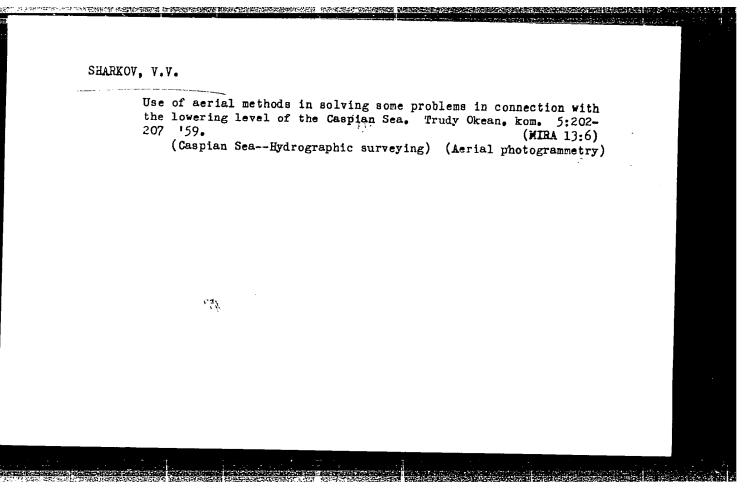
SHARKOV, V.V., kand.geogr.nauk, otvetstvennyy red.; ARON, G.M., red.izd-va; BLEYKH, H.Yu., tekhn.red.

[Geological air survey of shallow parts of the Caspian Sea]
Aerogeologicheskaia s*emka melkovodnykh zon Kaspiiskogo moria.
Moskva, 1958. 139 p. (MIRA II:6)

1. Akademiya nauk SSSR. Iaboratoriya aerometodov. (Caspian Sea-Aerial photogrammetry)



GUR YEVA, Z.I.; SHARKOV, V.V.



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SOV/4315 SOV/7-S-9

Akademiya nauk SSSR. Laboratoriya aerometodov

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Trudy, tom 9 (Transactions of the Laboratory of Aerial Methods, USSR Academy of Sciences, vol. 9) Moscow, AN SSSR, 1960. 357 p. Errata slip inserted. 1,700 copies printed.

Resp. Ed.: V.V. Sharkov, Candidate of Geography; Ed. of Publishing House: D.M. Kudritskiy; Tech. Ed.: M.Ye. Zendel'.

PURPOSE: This volume is intended for geographers, geologists, geodesists, and photogrammetrists.

COVERAGE: This collection of 23 articles contains studies of the earth's surface, structure, and geological formations by means of aerial photography. The authors discuss the principles, methods and techniques used in aerial surveying to determine such factors as the petrographic composition of the soil through the measurement of the spectral brightness of surfaces, the geological structure of underwater areas through recorded photographic images, the geological composition and geomorphological structure of underlying layers through the analysis of surface plant coverings, the trends and characteristics of recent tectonic movements through the study of surface features traced photographically Card 1/5

Transactions of the Laboratory (Cont.)

over extensive regions, etc. The instruments used in this work (cameras, cinematographic spectrographs, stereographs, stereoprojectors,

ALL MADE AND REPORTED BY STREET STREET, AND AND ADDRESS OF THE PROPERTY OF THE

cinematographic spectrographs, stereographs, stereoprojectors, color and black and white film) are described and the analysis and interpretation of the data obtained discussed. References accompany individual articles.

TABLE OF CONTENTS:

Miroshnichenko, V.P. "Takyrs" as Indicators of the Most Recent Tectonic Movements in the Sandy Deserts of Central Asia

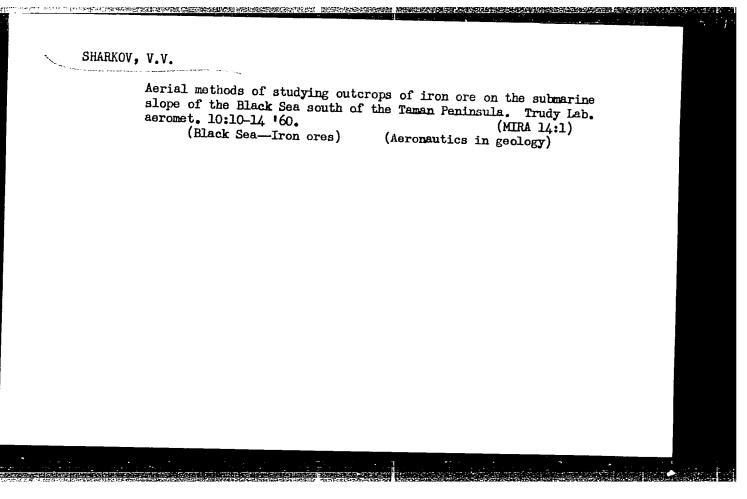
Romanova, M.A. Experimental Aerial Petrographic Survey of the Sands of the Northwestern Caspian Region

Gur'yeva, Z.I., and V.V. Sharkov. Geologic Structure of the Underwater Slope of the Southwestern Part of the Taman' Peninsula

Tolchel Intiger. Vo. C. Vet. 1.7

Tolchel'nikov, Yu.S. Natural Factors Affecting the Tone of the Soil Images of Plowed Massifs on Aerial Photographs

Card 2/5



SHARKOV, V.V.; GUR!YEVA, Z.I.

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Some examples of the use of aerial photographs in detecting anticlinal structures. Trudy Lab. aeromet. 10:15-23 '60.

(MIRA 14:1)

(Aeronautics in geology) (Photography, Aerial)

SHARKOV, V.V.; GURIYEVA, Z.I.; KOSHECHKIN, B.I.

Some features of the geological structure of the submarine slope of the taman Peninsula in the Sea of Azov (according to the materials of aerogeslogical research). Trudy Lab. aeromet. 10:24-34 '60.

(MIRA 14:1)

(Azov, Sea of-Submarine geology)

SHARKOV, V. V., Doc Geol AND MINEROL SCI, "GEOLOGICAL STRUCTURE AND HISTORY OF THE DEVELOPMENT OF THE RELIEF OF THE CONTINENTAL SLOPE OF THE WEST COAST OF THE CASPIAN SEA, FROM THE CITY OF MAKHACHKALA TO THE ESTUARY OF THE KURA RIVER (ON THE BASIS OF AN AERIAL PHOTOGRAPHIC SURVEY). LENINGRAD, 1961. (ALL-UNION SCI RES GEOL INST "VSEGYEI"). (KL-DV, 11-61, 212).

-61-

SHARKUV, V.V.; GUR'YEVA, Z.I.

Geomorphology of the continental slope of the Taman' Peninsula.
Uch.zap.LU no.298:155-170 '61.
(Taman' Peninsula-Slopes (Physical geography))

:

CIA-RDP86-00513R001548620004-1 "APPROVED FOR RELEASE: 08/23/2000 TO RECENT MINISTERS CHARGE THE PROPERTY OF THE

s/035/62/000/011/058/079 A001/A101

AUTHORS:

Sharkov, V. V., Gur'yeva, Z. I.

TITLE:

An experience in studying the landscapes of shallow sea floor sections in the western coast of the Caspian Sea and Caucasian-Taman'

coast of the Black Sea

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 11, 1962, 19, abstract 11G144 (In collection: "Primeneniye aerometodov v landshaftn. issled.", Moscow - Leningrad., AN SSSR, 1961, 255 - 277)

Aerial photosurvey of sea floor was experimentally performed with A.A (AFA) middle-focus cameras on films of types PD-1 (RF-1) and RF-3, panchromatic film of type 10-600, multi-layer colored one, etc. Best results were obtained in photographing with yellow light filter on the film RF-1 and RF-3. The following scales were used: 1: 25,000; 1: 10,000 and 1: 5,000 (on small areas 1: 3,000 and 1: 2,000). It was found that in surveys on scales finer than 1: 10,000 the sea floor is difficult to decipher, as many objects are not reproduced on photographs. Field deciphering was made by running routes on dry

Card 1/2

An experience in studying the...

S/035/62/000/011/058/079 A001/A101

land along the shore and series of tacks into the sea in a cutter and boat. The sea floor was studied by means of lifting samples with devices, and in main sections scientific workers carried out diving immersions. The floor relief was studied by means of a POJ -1 M (REL-IM) sounding device. The authors consider briefly the signs for deciphering objects of sea floor, established as a result of experimental work, which enable one to identify on aerial photographs outcrops of various primary rocks to the sea floor and recent deposits, to determine their composition and relative geologic age, and sometimes to determine even the character of rock occurrence, individual elements of faults, breaks, and to detect the existence of different genetic relief forms, vegetation, etc.

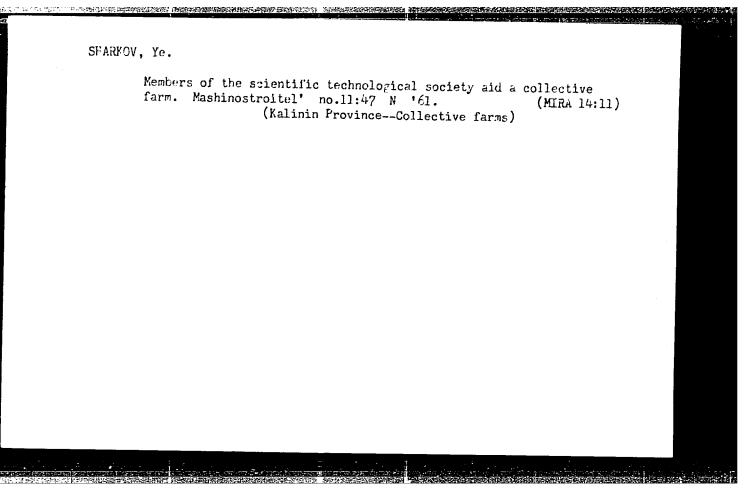
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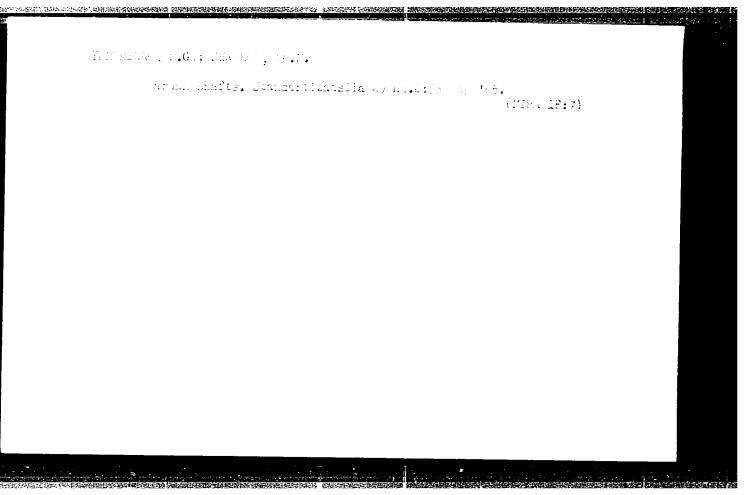
[Abstracter's note: Complete translation]

Card 2/2

SHARKOV, Vitaliy Vasil'yevich; MOROZOV, A.I., otv. red.

[Geology of the underground slope of the western coast of the Caspian Sea (from the city of Makhachkala to the Kura estuary)] Geologiia podvodnogo sklona zapadnogo berega Kaspiiskogo moria (ot g.Makhachkala do ust'ia r. Kury). Moskva, Izd-vo "Nauka," 1964. 429 p. (MIRA 17:6)

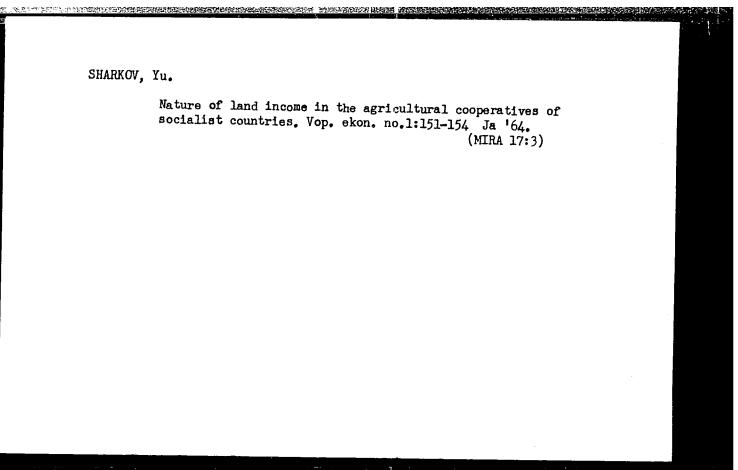




SHORMOV, Ye.V.

Evolution of rock-forming minerals in the process of creating the Zlatogorsk differentiated pluton (northern Kazakhstan). Vest. IGU 20 no.24:37-41 '65. (META 19:1)

1. Submitted May 15, 1965.



SHARKOV, Yu.V.; GLIKO, O.A.

Geochemical methods of prospecting for ore deposits in foreign countries. Razved. i okh.nedr 22 no.3:55-62 Mr *56.(MIRA 9:7) (Geochemical prospecting)

SHARKOV. Yu.V.

and the second section is the property of the property of the second

Peculiarities of conducting trace-metal prospecting under varying natural conditions. Razved.i okh.nedr. 22 no.8:15-22 Ag '56.

(MERA 9:11)

1. Tekhupravleniye Ministerstva geologii i okhrany nedr SSSR. (Geochemical prospecting) (Ore deposits)

KRASHIKOV, V.I., glavnyy red.; BRODSKIY, A.A., red.; PEREL'MAN, A.I., red.; SAUKOV, A.A., red.; SAFRONOV, N.I., red.; SERGEYEV, Ye.A., red.; KHITAROV, N.I., red.; SHARKOV, Yu.V., red. SHCHERBINA, V.V., red.; GUROVA, O.A., tekhn.red.

[Geokhimicheskie poiski rudnykh mestorozhdenii v SSSR; trudy sove-shchaniia. Pod red. V.I.Krasnkova. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. 1957. 466 p. (MIRA 11:3)

1. Vsesoyuznoye soveshchaniye po geokhimicheskim metodam poiskov rudnykh mestorozhdeniy. 1st, Moscow, 1956.

(Geochemical prospecting)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548620004-1"

CIA-RDP86-00513R001548620004-1 "APPROVED FOR RELEASE: 08/23/2000

SOV/26-59-12-3/45

TITTORY

Sharkov, Yu. V., Candidate of Geological and Mineral-ogical Sciences (Moscow)

。 1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,1945年,19

Searching for Deposits of Atomic Raw Material

:DAL DICAL:

Priroda, 1959, Nr 12, pp 13-21 (USSR)

TERRETAIN TO THE

The author states that the splitting of the atom has created a great demand for uranium. Most uranium deposits presently being worked are those which were easiest to find. As they become exhausted, the problem is to find others. The article is an account of methods of prospecting employed in the USSR. To enable large areas to be surveyed easily and quickly, radiometers and counters have been developed. The instruments and methods used for prospecting from aircraft are described. The author says that aircraft have been used for this purpose in the USSR since 1947. Light MI-1 and KA-15 helicopters, carrying a 45-kg scintillometer, are used. Practice

Just 1/3

-- certain natifual conditions

SOV/26-59-12-3/45

Searching for Deposits of Atomic Raw Material

is described. There are 3 photographs, 2 diagrams, and 1 chart.

Card 3/3

KRASMIKOV, V.I.; SHARKOV, Yu.V.

Spatial and genetic relation between exogenetic and medimentary-metamorphogenetic uranium deposits and arid zones of the corresponding geologic epochs. Dokl. AN SSSR. 144 no.6: 1359-1362 Je '62. (MIRA 15:6)

1. Predstavleno akad. D.I.Shcherbakovym. (Uranium ores)

SHARKOV, Yu. V.

"Methodological instructions for carrying out geochemical prospecting for pyritic copper deposits in the Southern Urals based on the secondary halos of dispersion" by M. A. Glazovskaia. Reviewed by IU. V. Sharkov. Vop. geog. no.59:178-179 '62. (MIRA 16:1)

(Ural Mountains—Geochemical prospecting)
(Ural Mountains—Chalcopyrite)
(Glazovskaia, M. A.)

SAUKOV, A.A.; GINZBURG, I.I.; PERELIMAN, A.I.; AYDINIYAN, N.Kh.; SHARKOY, Yu.V.

Vladimir Ivanovich Krasnikov; obituary. Geol. rud. mestorozh. 5 no.2:141-142 Mr-Ap '63. (MIRA 16:6)

(Krasnikov, Vladimir Ivanovich, 1907-1962)

KRAUNIKOV, Vladimir Ivanovich (1906-1962), prof., doktor geol. - miner. nauk; DYUKOV, A.I., otv. red.; KAZHDAN, A.B., otv. red.; FEREL MAN, A.I., red.; CHIRKOV, Yu.V., red.

[Fundamentals of an efficient method of prospecting for one deposits] Osnovy ratsional noi metodiki poiskov rudnykh mestorozhdenii. 2. izd. Moskva, Neira, 1965. 398 p. (MIRA 18:12)

SHARKOVA, A. S.

DECEASE.

MICROBIOLOGY

c/1963

SHARKOVA, K.D.

Result of joint work of parasitological departments and prophylactic disinfection departments in Stalingrad. Med.paraz. 1
paraz.bol. 27 no.6:728-729 N-D '58. (MIRA 12:2)
(PARASITIC DISEASES, prev. & control,
cooperation of parasitol. & disinfection
departments (Rug))
(ANTISENSIS AND ASSEPSIS,
same)

KUCHEROVA, N.F.; ZHUKOVA, I.G.; KAMZOLOVA; N.N.; PETRUCHENKO, M.I.; SHARKOVA, N.M.; KOCHETKOV, N.K.

Indole derivatives. Part 8:9-Acyl-1,2,3,4, 4a, 9a-hexahydro-8-carbolines. Zhur.ob.khim. 31 no.3:930-936 Mr 161, (MIRA 14:3)

1. Nauchno-issledovatel'skiy institut farmakologii i khimioterapii.
(Pyridindole)

SHARKOVA, N.M.; KUCHEROVA, N.F.; ZAGOREVSKIY, V.A.

Derivatives of indole. Part 9: Synthesis of derivatives of pyrano (4,3-b)-3,4-dihydroindoles and chromeno (4,3-b)indoles. Zhur.ob.khim. 32 no.11:3640-3645 N '62. (MIRA 15:11)

1. Institut farmakologii i khimioterapii AMN SSSR.
(Pyranoindole) (Benzopyranoindole)

SHARKOVA, N.M.; KUCHEROVA, N.F.; ZAGOREVSKIY, V.A.

Derivatives of indole. Part 15: Syntheses of some condensed indoline systems. Zhur. ob. khim. 34 no. 5:1614-1618 My 164. (MIRA 17:7)

1. Institut farmakologii i khimioterapii AMN SSSR.

SOV/140 -58-3-33/34 AUTHOR: Sharkova, N.V.

The Application of the Method of Oscillating Functions for TITLE: the Approximative Solution of Initial and Boundary Value Problems for Non-Linear Differential Equations of Second Order (Primeneniye metoda ostsilliruyushchikh funktsiy k priblizhennomu resheniyu nachal'nykh i krayevykh zadach dlya nelineynykh differentsial'nykh uravneniy vtorogo poryadka)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1958. Nr 3, pp 251-255 (USSR)

The method proposed by Mel'nikov Ref 1-3 for the approxi-ABSTRACT: mative solution of differential equations of first order is extented to the solution of y''=f(x,y,y'). The solution of the initial value problem y(0)=a, y'(0)=bis sought in the form

 $y_N(x) = \frac{a_k}{2} (x-x_k)^2 + b_k(x-x_k) + c_k, \quad x_k \le x \le x_{k+1},$

whereby the initial conditions, the continuity of the solution etc. are used for the determination of the coefficients. The substitution of the obtained approximation into (1) then leads

to oscillating functions which can be estimated more or less Card 1/2

The Application of the Method of Oscillating SOV,140 -58-3-33/34 Functions for the Approximative Solution of Initial and Boundary Value Problems for Non-Linear Differential Equations of Second Order

roughly. The boundary value problem y(0) = y(1) = 0 is solved by enclosing the solution between the solutions of two initial value problems $[y(0) = 0, y'(0) = b_1]$ and $y(0) = 0, y'(0) = b_2$ whereby the b_1 and b_2 depend on the errors of the approximative solution of the initial value problems. There are 4 references, 3 of which are Soviet, and 1 German.

ASSOCIATION: Permskiy gosudarstvennyy universitet imeni A.M.Gor'kogo '(Perm' State University imeni A.M.Gor'kiy)

SUBMITTED: December 20, 1957

Card 2/2

16,3400

32472 \$/044/61/000/010/038/051 C111/C222

AUTHOR:

Sharkova, N.V.

TITLE:

The application of the method of oscillating functions for the approximate solution of boundary value problems for differential equations of second order

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1961, 36-37, abstract 10 V 222. ("Uch. zap. Permsk. un-t", 1959, 13. no. 2, 41-61)

TEXT: The method of oscillating functions developed in the papers of S.I. Mel'nik (R Zh Mat, 1954. 5256; 1957, 5942, 5943) is used for the approximate solution of the linear differential equation of second order

y'' = p(x)y' + q(x)y + r(x)

with the boundary conditions

$$R_{1}[y] \equiv \alpha_{1}y(0) + \alpha'_{1}y'(0) + \beta_{1}y(1) + \beta'_{1}y'(1) = 0$$
,

$$R_{2}[y] = \alpha_{2}y(0) + \alpha_{2}y'(0) + \beta_{2}y(1) + \beta_{2}y'(1) = 0$$

Card 1/2

32472 S/044/61/000/010/038/051 C111/C222

The application of the method of ...

where p(x), q(x) and r(x) are functions differentiable on $\left[0,1\right]$, and the rank of the matrix

$$\begin{pmatrix} \alpha_1 & \alpha_1' & \beta_1 & \beta_1' \\ \alpha_2 & \alpha_2' & \beta_2 & \beta_2' \end{pmatrix}$$

equals 2. An estimation of the approximate solution is given (under the assumption that the estimation for the Green's function is known). For the equation y'' = q(x)y + r(x) with the conditions y(0) = y(1) = 0 the error estimation can be obtained without a Green's function. The method of oscillating functions is used for the determination of the eigenvalues of boundary value problems and for the approximate solution of the Cauchy and the boundary value problem (under some restrictions) for the non-linear differential equation y'' = f(x,y,y). Examples are considered.

[Abstracter's note & Complete translation.]

Card 2/2

SHARALVA, L. 7., Gual of Phys-Lath Dei -- (dice) "Use of Oscillatory Functions for the Solution of Regional Problems for Common Differential Equations," Perm', 1989, 15 pp (Perm' State Univ im A. M. Gor'kiy) (KL, 2-60, 110)

S/140/60/000/003/011/011 16,3400 AUTHOR: Sharkova, N.V. TITLE: Approximate Solution of Differential Equations With a Lagging Argument With the Aid of the Method of Cscillating Functions Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1960, PERIODICAL: Nr.3, pp. 256-260 TEXT: The problem $\frac{d^2y(x)}{dx^2} \div p_1(x) \frac{dy(x)}{dx} \div p_2(x)y(x) + g_1(x) \frac{dy(x-\tau)}{dx} + g_2(x)y(x-\tau) = f(x)$ $y(x) = \psi(x)$ for $\mathcal{T} \le x \le 0$, y(0) = a, y'(0) = b, where $p_1(x)$, $p_2(x)$, $g_1(x)$, $g_2(x)$, f(x), $\psi(x)$ is continuously differentiable for $0 \le x < +\infty$ and T > 0 is constant, is always solvable according to (Ref.1). The approximate solution $y_N(x)$ is constructed with the aid of the functions $y_{k_{N}}(x)$, k=0,1,2,...: 1) $y_{O_N}(x)$ is an approximate solution of Card 1/4

S/140/60/000/003/011/011 C111/C222

Approximate Solution of Differential Equations With a Lagging Argument With the Aid of the Method of Oscillating Functions

 $\frac{d^{2}y_{0}(x)}{dx^{2}} + p_{1}(x)\frac{dy_{0}(x)}{dx} + p_{2}(x)y_{0}(x) + g_{1}(x)\phi'(x-t) + g_{2}(x)\phi(x-t) = f(x)$

on $[0,\overline{C}]$ under the conditions $y_0(0) = a$, $y_0'(0) = b$.

2) $y_{k_{N}}(x)$ (k=1,2,3,...) are approximate solutions of

$$\frac{d^{2}y_{k}(x)}{dx^{2}} + p_{1}(x)\frac{dy_{k}(x)}{dx} + p_{2}(x)y_{k}(x) + g_{1}(x)\frac{dy_{(k-1)}(x-2)}{dx} +$$

 $+g_2(x)y_{(k-1)_N}(x-T) = f(x)$

on the $[k \in (k+1)^T]$ (k=1,2,3,...) under the conditions $y_k(k\tau) = y_{(k-1)_N}(k\tau)$,

 $y'_k(kT) = y'_{(k-1)_N}(kT)$, where $y_{(k-1)_N}(x)$ is assumed to be found. The

approximate solutions $y_{k_N}(x)$ are determined with the method of oscillating Card 2/4

S/140/60/000/003/011/011 C111/C222

Approximate Solution of Differential Equations With a Lagging Argument With the Aid of the Method of Oscillating Functions

functions (Ref.2).
3) Now it is put

$$y_N(x) = y_{k_N}(x)$$
 (k=0,1,2,...) for k $\tau < x < (k+1)\tau$.

The error estimation is given in agreement with (Ref.2). A numbrical example is calculated.

The same method is applied to the problem:

$$y''(x)+p_1(x)y\cdot(x)+p_2(x)y(x)+g_1(x)y'(x-t)+g_2(x)y(x-t) = f(x)$$

 $y(x) = \sqrt[p]{x}$ for $-7 \le x < 0$

$$U_{1}(y) = \alpha_{1}y(0) + \alpha_{1}^{2}y^{2}(0) + \beta_{1}y(1) + \beta_{1}^{2}y^{2}(1) = 0$$

$$U_2(y) = d_2y(0) + d_2y'(0) + \beta_2y(1) + \beta_2y'(1) = 0$$

where $p_1(x)$, $p_2(x)$, $g_1(x)$, $g_2(x)$, f(x) are continuously differentiable functions on [0,1], T is a constant positive lag, the rank of the matrix Card 3/4

S/140/60/000/003/011/011 C111/C222

Approximate Solution of Differential Equations With a Lagging Argument With the Aid of the Method of Oscillating Functions

(of of B B equals 2 and h=0 is no eigenvalue.

There are 3 Soviet references.

[Abstracter's note: The method of oscillating functions of (Ref.2) is not described in the paper. (Ref.2) is a paper of S.I.Mel'nik in Uch.zap. Molotovsk. un-ta, 1955, Vol.9, No.4, pp.15-24]

ASSOCIATION: Permskiy gosudarstvennyy universitet imeni A.M.Gor'kogo (Perm State University imeni A.M.Gor'kiy)

SUBMITTED: September 16, 1958

Card 4/4

"APPROVED FOR RELEASE: 08/23/2000	CIA-RDP86-00513R001548620004-1
AUTHOR: Sharkova, N.V. AUTHOR: Sharkova, N.V. TITLE: Reduction of a Boundary Value Prob Initial Conditions W Initial Conditions W PERIODICAL: Izvestiya vysshikh uchebnykh The author considers The author considers	S/140/60/000/005/020/021 S/140/60/000/005/020/021 C111/C222 The state of the control of the c

Reduction of a Boundary Value Problem to a Problem With Cauchy Initial Conditions

86193 5/140/60/000/005/020/021 C111/C222

below with Cauchy Initial conditions
$$y_1 = \epsilon_1 > 0 \qquad \epsilon_1 > \mathbf{E}_1 h^2 \geqslant |y_1(x) - y_1(x)|$$

$$y_{2_{N}}(1) = \epsilon_2 < 0$$

$$y_{2_{N}}(1) = \epsilon_{2} < 0$$
 $\epsilon_{2} > M_{2}h^{2} > |y_{2}(x) - y_{2_{N}}(x)|$

Here M_1h^2 and M_2h^2 are the estimations of the error arising at the approximative solution with the aid of the method of oscillating functions. The M $_{1}$ and M $_{2}$ can be expressed by the norms of the reversion operators of

Volterra equations (cf. (Ref. 1)), Theorem 1 % Let the curves $y_1(x)$ and $y_2(x)$ be solutions of (1) with the conditions y(0) = 0, $y'(0) = b_1$ and y(0) = 0, $y'(0) = b_2$. If they do not intersect $y_1(x)$ and $y_2(x)$ on [0,1] then y(x) lies between them.

Theorem 2 % If λ = 0 is no eigenvalue of the given boundary value problem but an eigenvalue of (1) for the conditions y(0) = 0, $y(x_i) = \alpha_i$ for $x \in [0,x_i]$, where $x_i < 1$ (i = 0,1,2,...,n) then the curves $y_1(x)$ and

Card 2/3

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548620004-1"

86193

Reduction of a Boundary Value Problem to a Problem With Cauchy Initial Conditions

S/140/60/000/005/020/021 C111/C222

 $y_2(x)$ intersect in all points x_i and only in them.

Theorem 3: If $\lambda = 0$ is no eigenvalue of the given boundary value problem then y(x) lies between $y_1(x)$ and $y_2(x)$ for $x \in [0, 1]$.

According to the theorems, the author recommends one of the curves y_{1} (x)

or $y_{2N}^{}$ (x) as an approximate solution. The error is e.g. for $y_{1N}^{}$ (x) ,

 $|y(x) - y_1|(x)| < \max_{0 \le x \le 1} |y_1|(x) - y_2|(x)| + \max_{1 \le x \le 1} (M_1, M_2) \cdot h^2$

There is 1 Soviet reference.

[Abstracter's note : (Ref. 1) is a paper of S.I. Mel'nik in Uch. zap. Permsk un -ta, 1955, Vol. 9, No. 4. pp. 15 - 24]

ASSOCIATION:

Permskiy gosudarstvennyy universitet imeni A.M. Gor'kogo (Perm' State University imeni A.M. Gor'kiy)

SUBMITTED: September 26, 1958

Card 3/3

L 45185-66 EWT(d)/T IJP(c)
ACC NR. AR6027459 SOURCE CODE: UR/0044/66/000/005/B044/B044

AUTHOR: Sharkova, N. V.

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ORG: none

TITLE: Approximate solution of differential equations with a deflected argument by a method of oscillating functions &

SOURCE: Ref. zh. Matematika, Abs. 5B209

REF SOURCE: Uch. zap. Permsk. un-t, no. 103, 1963, 85-102

TOPIC TAGS: approximate solution, differential equation, function analysis, oscillating function

ABSTRACT: A method of oscillating functions, proposed by S. I. Mel'nik (RZhMat, 1954, 5256; 1957, 5942), is applied to the solution of differential equations with a delayed argument, neutral-type equations, and equations with a leading argument. The results obtained previously by the author (RZhMat, 1961, 10B220), are improved in this study. Summary. [Translation of abstract] [NT]

SUB CODE: 12/ ard 1/1

UDC: 517.949.2

AUTHOR: Sharkova, N.V.

TITLE: Approximate solution of integral-differential equations and differential equations with retarded argument by

the method of oscillating functions

CONTROL OF THE PROPERTY OF THE

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Matematika, no. 1, 1963, 158 - 168

TEXT: The method of oscillating functions put forward by S.I. Mel'nik (DAN SSSR, V.XCV, no. 4, 1954; Uchen. zap. Permsk. Gosn-ta, v.9, no. 4, 1955) is applied to the approximate solution of integral differential equations and linear and nonlinear differential equations with retarded argument (variable retardation). The integral differential equation considered is

$$y'(x) = \int_{0}^{\infty} y(x - s) dr(x, s) + f(x)$$
 (1)

where f(x) is continuous for $0 \leqslant x \leqslant \ell$ and the kernel r(x, s) is defined for $0 \leqslant x \leqslant \ell$, $0 \leqslant s \leqslant \infty$. Next, it is Card 1/6

Approximate solution

assumed that for $0 \le s \le \ell$ there exist continuous functions $\sigma(s \le 0)$, $V(x \ge 0)$ and M(x), which are such that r(x, 0) = 0 $\sigma(x)$ $\sigma($

 $\sigma(x) < s < +\infty$ and r(x, s) is such that for any $x \in [0, \ell]$ $\sigma(x)+1$

$$\begin{array}{c|c}
\sigma(x)+1 \\
& \text{lim} \\
t \to x
\end{array} \left| \begin{array}{c}
r(t, s) - r(x, s) \mid ds = 0 \\
0 \leqslant t \leqslant \ell \quad 0
\end{array} \right|$$

It is further supposed that $y(0)=\phi(0)$, $y(x-s)=\phi(x-s)$, when x-s<0, where $\phi(x)$ is continuous for $-\infty< x \le 0$ and $|\phi(x) \le K$, $|\phi(0)| < K$. The approximate solution of Eq.(1) is sought in the form

Card 2/6

Approximate solution

$$y_{N_{k}}(x) = a_{k}(x - x_{k}) + b_{k}$$
,
 $x_{k} \le x < x_{k+1} (k = 0, 1, 2, ..., N - 1), \max |x_{k+1} - x_{k}| = h$,
 $0 = x_{0} < x_{1} < ... < x_{N} = \ell$.

The coefficient a_k are then determined by the oscillating-function method and the accuracy of the approximation is estimated. Next, an equation of the form

$$y''(x) = p_{1}(x)y'(x) + p_{2}(x)y(x) + g_{1}(x)y'(x - \triangle(x)) + g_{2}(x)y(x - \triangle(x)) + f(x)$$

$$(9)$$

is considered subject to the conditions

$$y(0) = \varphi(0) = a$$
, $y'(0) = b$, $y(x - \triangle(x)) \equiv \varphi(x - \triangle(x))$
Card 3/6

Approximate solution

S/140/63/000/001/004/006 E032/E314

when $x - \triangle(x) < 0$, where $p_1(x)$, $p_2(x)$, $g_1(x)$, $g_2(x)$ and f(x) are differentiable in $0 \le x \le \ell$, $\phi(x)$ is continuously differentiable in $-\infty < x \le 0$ and $\triangle(x) > 0$ is continuous in $0 \le x \le \ell$. The approximate solution of this problem is sought in the form

$$y_{N_k}(x) = \frac{a_k}{2} (x - x_k)^2 + b_k(x - x_k) + c_k$$

$$x_k < x < x_{k+1}$$
 (k = 0, 1, 2, ..., N - 1), $\max |x_{k+1} - x_k| = h$
 $0 = x_0 < x_1 < \cdots < x_N = \ell$.

Again, the coefficients are evaluated by the oscillating-function method and the errors involved are estimated. Finally, the same methods are used to solve the equation

$$y'' = f(x, y)(x), y'(x), y(x - \Delta(x)), y'(x - \Delta(x)))$$
 (15)

Card 4/6

S/140/63/000/001/004/006 E032/E314

Approximate solution

subject to the conditions $y(0) = \varphi(0) = a$, y'(0) = b, $y(x - \triangle(x)) = \varphi(x - \triangle(x))$, when $x - \triangle(x) > 0$, where f is continuous with respect to all its arguments in $0 \le x \le \ell$, $-\infty < y$, $y' < +\infty$ and satisfy the Lipschitz condition for all its arguments begin ning with the second, $\varphi(x)$ is an initial function which is continuously differentiable in $-\infty < x \le \ell$. Eq. (15) is equivalent to (subject to the given initial conditions) the following system of second-order equations

$$y'(x) = z(x),$$

 $z'(x) = f(x, y(x), z(x), y(x - \triangle(x)), z(x - \triangle(x)))$ (16)

subject to the conditions y(0) = a, z(0) = b, $y(x - \triangle(x)) = y(x - \triangle(x))$ when $x - \triangle(x) < 0$. The approximate solution of Eq. (16) is then seen to be in the form

$$y_{N_k}(x) = a_k(x - x_k) + b_k$$
, $z_{N_k}(x) = A_k(x - x_k) + B_k$, where

Card 5/6

Approximate aclution

 $x_{k} \le x \le x_{k+1}$ (k = 0, 1, 2, ..., N - 1), max $|x_{k+1} - x_{k}| = h$, $0 = x_{0} \le x_{1} \le ... \le x_{N} = \ell$

and the accuracy of the approximation is estimated.

ASSOCIATION:

Permskiy gosudarstvennyy universitet im.

A.M. Gor'kogo (Perm : State University im.

A.M. Gor'kiy)

SUBMITTED:

December 30, 1959

Card 6/6

L 11113-63 EWT(d) ACCESSION NR: AP3000958 EWT(d)/FCC(w)/BDS--AFFTC--Pg-4--IJP(C)

5/0140/63/000/003/0173/0184

AUTHOR: Sharkova, N. V. (Perm')

The approximate solution of differential equations with a deviating ar-TITLE:

gument

IVUZ. Matematika, no. 3, 1963, 173-184 SOURCE:

TOPIC TAGS: differential equation, deviating argument, approximate solution, oscillatory function method

ABSTRACT: The method of oscillatory functions proposed by S. I. Mel'nik for the solution of differential and integral equations is applied to the approximate solution of second-order differential equations with a deviating argument. The following four cases are investigated: a) linear equations of the neutral type; b) nonlinear equations of the neutral type; c) linear equations with a leading argument; and d) nonlinear equations with a leading argument. The approximate solutions of types (a), (c), and (d) are sought in the form

$$Y_{N_k}(x) = \frac{a_k}{2}(x - x_k)^2 + b_k(x - x_k) + c_k,$$
 (1)

Card 1/2

L 11113-63 ACCESSION NR: AP3000958

where $x_k \leqslant x \leqslant x_{k+1}$ and $\max(x_{k+1} - x_k) = h$. Constants c_k , b_k , (k = 1, 2, ..., N-1) are determined from the conditions of continuity of the approximate solution and of its first derivative at the junction points of two parabolas; constants a_k are determined from the oscillatory function. In case (b) a system equivalent to two first-order differential equations is derived, and the approximate solution is sought in the form

$$Y_{N_k}(x) = a_k(x - x_k) + b_k$$

 $Z_{N_k}(x) = A_k(x - x_k) + B_k.$ (2)

The method of determining the constants a_k , b_k , A_k , and B_k is presented. An estimate of the error of the approximation is derived: In case (a) it is proportional to h^3 ; in case (b), to h^2 ; and in the last two cases, to h. Orig. art. has: 19 equations.

ASSOCIATION: none

SUBMITTED: 03Jun60

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: MM Card 2/2 ch NO REF SOV: 004

OTHER: 000

SHARKOVA, T.T.

Some new species of the Silurian and Devonian Tabulata of southeastern Kazakhstan. Paleont. zhur. no. 1:20-25 '64. (MIRA 17:7)

1. Vsesoyuznyy aerogeologicheskiy trest.

(MIRA 16:10)

SHARKOVA, T.T.

New genus Axuolites (Favostida) from the Upper Silurian in

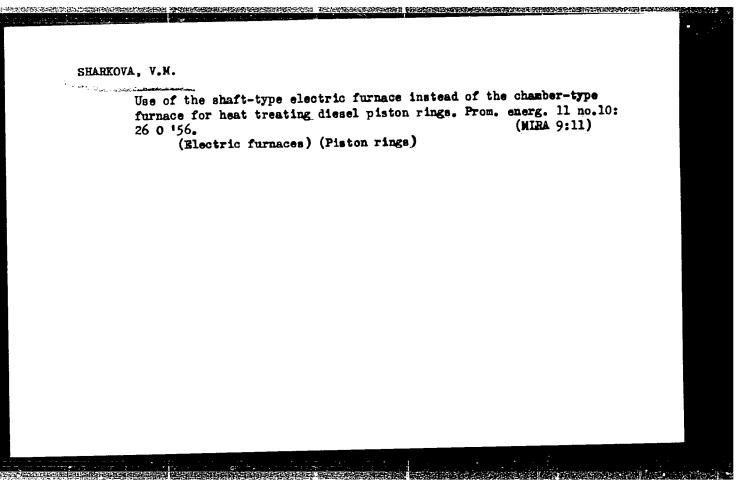
1. Vsesoyuznyy aerogeologicheskiy trest.

Kazakhstan. Paleot. zhur. no.3:117-119 '63.

KRUT', I.V.; YAKOVLEV, L.I.; KROPACHEV, S.M.; LYASHENKO, A.I.; SHARKOVA, T.T.

Stratigraphic position and structure of the Karashay series in the Northern Caucasus. Izv. AN SSSR. Ser. geol. 28 no.10: 49-59 0 '63. (MIRA 16:11)

1. TSentral'nyy nauchno-issledovatel'skiy geologorazvedochnyy
institut, Moskva.



ADADEMIYA NAUK SSSR. LABORATORIYA AEROMETODOV. PRIMEHENIYE AEROMETODOV

BLYA GEOLOGICHESKIKH ISSLADOVANIY HORSKOGO DMA; KRATKOVE METODICHESKOYS RUKOVODSTVO (USE OF AURO-METHICDS FOE UNDERWATER GEOLOGICAL SURVEYS) POD RED. 7. V.
SHARKOVA I D. E. KUDRITSKOGO. LENINGHAD, GOSTOPTEKHIZDAT, 1956. 254, (2) p.
ILIUS., BLAGES., TABLES. "LITERATURA": p. 252-(255)

SHARKOVA, V.Ye.

Calcium arsenite is toxic to the shield bug Eurygaster integriceps. Zashch.rast.ct vred.i bol. 4 no.6:37-38 N-D '59. (MIRA 15:11)

1. Nachal'nik proizvodstvennogo uchastka Rostovskogo otryada po
bor'be s vreditelyami i boleznyami rasteniy.
 (Rostov Province--Eurygasters--Extermination) (Calcium arsenites)

SHARKOVA, V.Ye.

They reduced the costs. Zashch.rast.ot vred.i bol. 5 no.3:6-7
Mr '60. (MIRA 16:1)

l. Nachal'nik proizvodstvennogo uchastka Rostovskogo otryada po bor'be s vreditelyami i boleznyami rasteniy. (Rostov Province—Eurygasters—Extermination)

ARKHANGEL'SKIY, N.M.; SHTEYNHERG, G.G., nauchnyy sotrudnik; SMARKOVA, V.Ye.

Poisoned objects providing cover as a method for controlling injurious insects. Zashch. rast. of vred. i bol. 5 no.9:27-32 S 160. (MIRA 15:6)

1. Chlen-korrespondent Vsesoyuznyy akademii sel'skokhozyaystvennykh nauk imeni V.I. Lenina (for Arkhangel'skiy). 2. Nachal'nik uchastka Rostovskogo otčela bor'by s vreditelyami sel'skogo khozyaystva (for Sharkova).

(Insecticides)

SHARKOVA, V. Ye.

Socialist obligations are being fulfilled. Zashch. rast. ot vred. i bol. 5 no.10:4-6 0 '60. (MIRA 16:1)

1. Nachal'nik proizvodstvennogo uchastka Rostovskogo oblastnogo otryada po bor'be s vreditelyami i boleznyami rasteniy.

(Roston Province-Plants, Protection of)

SHARKOVA, V.Ye.

One of the best. Zas: h. rast. ot vred. i bol. 6 no.8:42-43
Ag '61. (MIRA 15:12)

1. Obshchestvennyy korrespondent zhurnala "Zashchita rasteniy". (Plants, Protection of)

SHARKOVA, V.Ye.

Each experimental demonstration farm should be provided with an agronomist for plant protection. Zashch. rast. ot vred. i bol. 6 no.11:7-8 N 361. (MIRA 16:4)

l. Machal'nik otdela zashchity rasteniy Rostovskogo oblastnogo upravleniya sel'skogo khozyaystva.

(Rostov Province—Plants, Protection of)

YARKMENKO, N.Ye.; SHARKOVA, V.Ye.

Protecting grain with arsenic preparations. Zashch. rast. ot vred. i bol. 7 no.12:21-23 D 162. (MIRA 16:7)

l. Glavnyy agronom Rostovskogo otryada po bor'be s vreditelyami i boleznyami rasteniy (for Yaremenko). 2. Starshiy agronom Rostovskogo otryada po bor'be s vreditelyami i boleznyami rasteniy (for Sharkova). (Rostov Province---Rodent control) (Arsenic)

SHARKOVA, V.Ye.

On the "TSelinskii" State Farm. Zashon. rast, of vred. i tol.
9 no.8:9.10 '64.

1. Starshiy agronom Rostovskoy stantsii zashchity rasteniy.

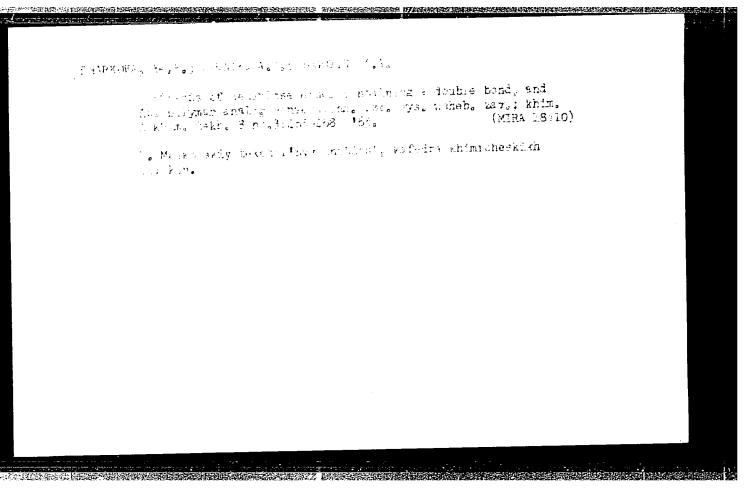
SHA	RECVA, KOSES, VIRCAR, A D., ROCCVIN, Z.A.; Frantmath SHTVAMOVA, E.K.	a uchacerys.
	Polymor chaicg conversions of a graft copolymer and polyglycopyl methacrylate. Vysckom.soud. 6	of sellulose no. 5:051-956 (MIRA 17:6)
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ACCESSION NR: AP5024397 ACCESSION NR: AP5024397 AUTHOR: Rogovin, Z. A.; Virnik, A. D.; Sharkova, Ye. F. A.; TITLE: A method for producing a graft copolymer. Class 39, No. 173404 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 80 TOPIC TAGS: graft copolymer, cellulose plastic, acrylic plastic, methacrylate plastic, ion exchange resin, radical polymerization ABSTRACT: Thi. Author's Certificate introduces: 1. A method for producing a graft copolymer by radical graft copolymerization of cellulose and an ester of acrylic or copolymer by radical graft copolymerization of cellulose and an ester of acrylic or methacrylic acid. A wider selection of monomers which can be grafted to cellulose methacrylic acid. A wider selection of glycidylmethacrylate. 2. A modification is provided by using glycidylacrylate or glycidylmethacrylate. 2. A modification of this method in which an ion-exchange copolymer is produced by treating the finished graft copolymer in compounds which react with its a-oxide cycles, e. g. aqueous solutions of primary or secondary amines, sulfite or bisulfite of sodium. ASSOCIATION: none SUBMITTED: 17Jum63 NO REF SOV: 000 CTHER: 000 SUB CODE: MT, GC	, ittimizes Courting C. <u>Later Learners (Later transfer)</u>	
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